

HAER No. HI-43

U.S. Naval Base, Pearl Harbor, Bulk Fuel Storage
Tank Type
(U.S. Naval Base, Pearl Harbor, Naval Station)
(Structure Nos. S746 and S747)
Middle Tank Farm, South of North Road between Merry
and Quarry Lochs
Pearl Harbor
Honolulu County
Hawaii

HAER
HI
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64-

PHOTOGRAPHS

WRITTEN HISTORICAL AND DESCRIPTIVE DATA

Historic American Engineering Record
National Park Service
Department of the Interior
San Francisco, California

HISTORIC AMERICAN ENGINEERING RECORDS

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Location: 50 meters off North Road between Merry Loch and Quarry Loch,
50 meters north of Club Pearl and 100 meters west of Naval Station
Galley.
Pearl Harbor, Honolulu County, Hawaii

USGS Pearl Harbor Quadrangle, Hawaii
7.5 minutes series (orthophotoquad)
Universal Transverse Mercator Coordinates
Structure S746: 4.609530.2361720
(scale- 1:24,000)
Structure S747: 4.609590.2361780
(scale-1:24,000)

Date of Construction: 1924

Engineer: Unknown

Present Owner: Naval Station, Pearl Harbor, Hawaii

Present Use: Unused

Significance: The Naval Base at Pearl Harbor was designated as a National Historic
Landmark in 1964, due to the crucial role it played in the Nation's
defense during the twentieth century and the calamitous events which
occurred on December 7, 1941. As Category 3 facilities, Structures
S746 and S747 were determined to be of minor importance to the
historical character of the National Historical Landmark. Structures
S746 and S747 were bulk fuel storage tanks with fuel for ships berthed
at Bravo and Mike piers. Located approximately 120 feet from Merry
Loch these structures escaped the attack and continued to provide fuel
to warships throughout World War II.

Description: Structures S746 and S747 are 106 feet in diameter x 32 feet high,
8,820 square feet, steel, bulk fuel storage tanks. Each tank has a
storage capacity of 50,000 barrels of fuel. Although there are no
drawings that show the construction of the tanks, they do not appear to
have any major modifications. Information for these tanks were gained
from: a) NAVFAC P-164, Detailed Inventory of Naval Shore Facilities;
b) tank site and berm plans from Pacific Division Drawing Nos. N-N24-
236, N-N24-286, N-N24-287 (on microfilm at Pacific Division Naval
Facilities Command Plan File room); c) interviews with Fuel

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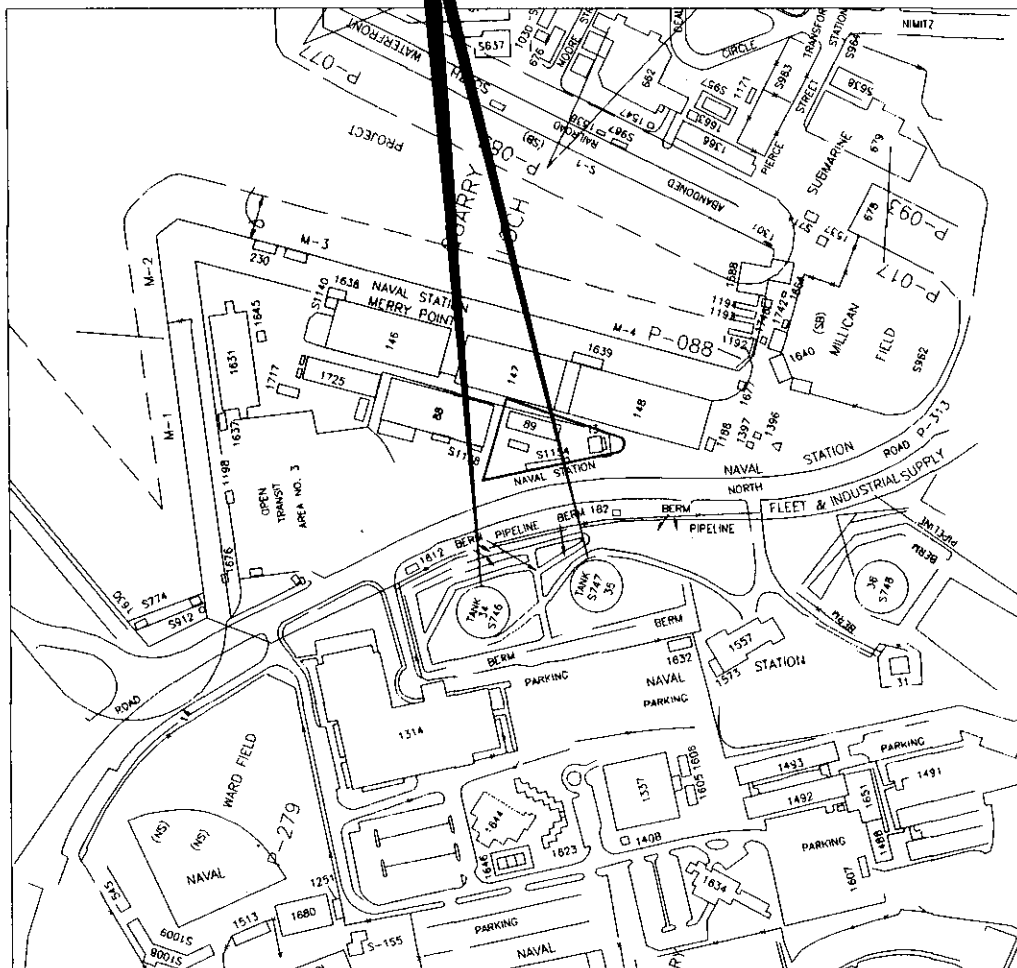
Department, Naval Station, Pearl Harbor; and d) U.S. Naval Base, Pearl Harbor, National Historic Landmark, Historic Preservation Plan, 1978. Both tanks were constructed by riveting 108 plates: eighteen plates per row and six rows high. Each plate is estimated at 1/2 inch thick x 66 inches high x 19 feet wide. The number of rivets required on each plate is based on the pressure requirements where the lowest plate has the most rivets. The roofs on both tanks are of the fixed type. An earthen berm surrounds each tank.

History: Constructed in 1924 at a cost of \$143,000 each, Structures S746 and S747 were designed to store bulk fuel for ships docked at Pearl Harbor. Reduced fuel storage requirements eliminated the need for the bulk storage, and the deteriorated condition of the tanks and high maintenance cost prompted the abandonment of the storage tanks.

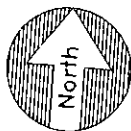
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Project Development Branch
Pearl Harbor, Hawaii 96860-5470

Date: January 1998

**Structures
S746 and S747**



Middle Tank Farm (NAVSTA PEARL)



SITE PLAN

